

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A rotary electric machine, comprising:
a rotary shaft;
a rotor ~~connected to the rotary shaft~~ provided with a disk-shaped yoke centered on the rotary shaft;
a stator placed opposite the rotor;
an ~~adjusting electric motor for adjusting relative positions of the rotor and the stator in the direction of the rotary shaft~~ rotary-driving; and
a movable member ~~that is engaged to the rotor and converts the rotation of the adjusting motor into the displacement of the movable member in the direction of the rotary shaft~~ of a cylindrical shape surrounding the rotary shaft, with one end of the cylinder engage-connected to a central portion of the rotor, for adjusting a gap between the yoke and the stator by converting rotation of the electric motor into displacement in an axial direction and moving in the axial direction.
2. (Currently amended) The rotary electric machine according to Claim 1, wherein the rotor ~~of the adjusting motor spirally engages with the movable member to permit relative motion~~ is made rotatable relative to the stator by fitting one end of the movable member to the central portion of the rotor through a bearing.
3. (Currently amended) The rotary electric machine according to Claim 1 ~~or 2~~, wherein the movable member is rotatably engaged to the rotor, and a means is provided for preventing the movable member from rotating together with the rotation of the rotor of the adjusting electric motor.

4. (Currently amended) The rotary electric machine according to Claim 3, wherein the movable member engages with ~~the~~ a rotation stop member fit around the rotor shaft of the ~~adjusting electric~~ motor so as to be incapable of making a relative rotation around but slidable in the axial direction of the rotor shaft of the ~~adjusting electric~~ motor.

5. (Currently amended) The rotary electric machine according to Claim ~~3 or~~ 4, wherein ~~the~~ a rotation stop portion of the rotation stop member is formed in a particular shape in cross section.

6. (Currently amended) The rotary electric machine according to Claim ~~3 or~~ 4, wherein opposing surfaces of the movable member and the rotation stop member fixed around the rotor shaft of the ~~adjusting electric~~ motor are each provided with at least one groove in ~~the~~ a direction of the rotor shaft of the ~~adjusting electric~~ motor, and a ball is placed between each groove on the movable member side and each groove on the rotation stop member side.

7. (Currently amended) The rotary electric machine according to ~~any one of Claims 2 to 6~~ Claim 1, wherein the rotor of the ~~adjusting electric~~ motor is in spiral engagement with the movable member.

8. (Currently amended) The rotary electric machine according to ~~any of Claims 1 to 7~~ Claim 1, wherein a resilient member is provided to urge the movable member in ~~the~~ a direction of offsetting ~~the~~ a force exerted to the movable member due to ~~the~~ a magnetic attractive force produced between the rotor and the stator.

9. (Currently amended) The rotary electric machine according to ~~any of Claims 1 to 8~~ Claim 1, wherein the ~~adjusting electric~~ motor is a stepping motor.

10. (Currently amended) An electric motor vehicle using the rotary electric machine according to ~~any one of Claims 1 to 9~~ Claim 1 as the driving source.

11. (New) The rotary electric machine according to Claim 1, wherein a cylindrical, oil-impregnated bearing is interposed between the movable member and the rotary shaft.

12. (New) A rotary electric machine comprising:
a rotary shaft;
a rotor provided with a disk-shaped yoke centered on the rotary shaft;
a stator placed opposite the rotor;
means for rotary-driving; and
a movable member of a cylindrical shape surrounding the rotary shaft, with one end of the cylinder engage-connected to a central portion of the rotor, for adjusting a gap between the yoke and the stator by converting rotation of the means for rotary-driving into displacement in an axial direction and moving in the axial direction.

13. (New) The rotary electric machine according to Claim 12, wherein the rotor is made rotatable relative to the stator by fitting one end of the movable member to the central portion of the rotor through a bearing.

14. (New) The rotary electric machine according to Claim 12, wherein a cylindrical, oil-impregnated bearing is interposed between the movable member and the rotary shaft.

15. (New) The rotary electric machine according to Claim 12, wherein the movable member is rotatably engaged to the rotor, and a means is provided for preventing the movable member from rotating together with the rotation of the rotor of the means for rotary-driving.

16. (New) The rotary electric machine according to Claim 15, wherein the movable member engages with a rotation stop member fit around the rotor shaft of the means for rotary-

driving so as to be incapable of making a relative rotation around but slidable in the axial direction of the rotor shaft of the means for rotary-driving.

17. (New) The rotary electric machine according to Claim 16, wherein a rotation stop portion of the rotation stop member is formed in a particular shape in cross section.

18. (New) The rotary electric machine according to Claim 16, wherein opposing surfaces of the movable member and the rotation stop member fixed around the rotor shaft of the means for rotary-driving are each provided with at least one groove in a direction of the rotor shaft of the means for rotary-driving, and a ball is placed between each groove on the movable member side and each groove on the rotation stop member side.

19. (New) The rotary electric machine according to Claim 12, wherein the rotor of the means for rotary-driving is in spiral engagement with the movable member.

20. (New) A method for manufacturing a rotary electric machine, comprising:
providing a rotor with a disk-shaped yoke centered on a rotary shaft;
placing a stator opposite the rotor;
rotary-driving using an electric motor;
surrounding the rotary shaft with a movable member of a cylindrical shape with one end of the cylinder engage-connected to a central portion of the rotor;
adjusting a gap between the yoke and the stator; and
converting rotation of the electric motor into displacement in an axial direction and moving in the axial direction.